



QC ABSTRACT

NAME OF WORK: Improvements and Asphalting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Fineness by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
5	Steel	ReBend test	One Test		1	1
		Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
6	Precast (100mm)					

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7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-50 cum	40.06	8	8
9	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
10	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
11	BC	STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		Ductility	One Test		1	1
		Softening Point	One Test		1	1
12	BITUMEN	Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
		Rate of spread	One Test		1	1
13	TACK COAT	Rate of spread	One Test		1	1

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-06-07-07 Date: 04-05-22
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP,
Address : Yelahanka Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphalting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency : Sri Raghu A N (M25 INFRA PRIVATE LIMITED), No 355Y No.6/3, 1st Cross S N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092
Customer's Reference : BBMP/EE/YNK D/EPMT-15/W.O/02/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 02-05-22
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification,
IS 4031 (Part 1, 2, 3, 4, 5, 6, 11) 1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY, Clause 6
Date of test : 03-05-22
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.15	—
2	Fineness by Air permeability method (m^2/kg , Min)	282.2	225 m^2/kg , Min
3	Density (gm/cc)	3.15	—
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-06-07-07 Date: 31-05-22

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.

Agency : Sri Raghu A N (M25 INFRA PRIVATE LIMITED), No:35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.

Customer's Reference : BBMP/EE/YNK.D/EPMT-15/W.O/02/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 03-05-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	54.5N/mm ²	Not less than 53 N/mm ²

* The results obtained are satisfactory as per standard requirements.

Note:

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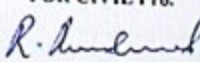
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R. RUDRAPRASAD
 Authorized Signatory
 Technical Manager

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-06-07-07 Date: 04-05-22

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.

Agency : Sri Raghu A.N (M25 INFRA PRIVATE LIMITED), No:35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.

Customer's Reference : BBMP/EE/YNK D/EPMT-15/W.O/02/2021-22

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 02-05-22

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 02-05-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2022-06-07-07

Date: 04-05-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.49	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.25	—

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

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Authorized Signatory
Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-06-07-07 Date: 04-05-22

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.

Agency : Sri Raghu A.N (M25 INFRA PRIVATE LIMITED), No:35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.

Customer Reference : BBMP/EE/YNK.D/EPMT-15/W.O/02/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-22

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 02-05-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	-



TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-06-07-07 Date: 04-05-22

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.

Agency : Sri Raghu A N (M25 INFRA PRIVATE LIMITED), No:35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.

Customer's Reference : BBMP/EE/YNK.D/EPMT-15/W O/02/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - I, 3) RA2021
IS 2386 Part I: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 02-05-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2022-06-07-07

Date: 04-05-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	-
2	Specific Gravity	2.55	-
3	Material finer than 75 micron(%)	6.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

• The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R RUDRAPRASAD
Authorized Signatory
Technical Manager



Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2022-06-07-07 Date: 03-05-22
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.
Agency : Sri Raghu A.N (M25 INFRA PRIVATE LIMITED), No:35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.
Customer's Reference : BBMP/EE/YNK.D/EPMT-15/W.O/02/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 02-05-22
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test : 02-05-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-06-07-07 Date: 13-05-22

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.

Agency : Sri Raghu A.N (M25 INFRA PRIVATE LIMITED), No:35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.

Customer's Reference : BBMP/EE/YNK.D/EPMT-15/W.O/02/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-05-22

Sample Type /Size : Precast Cover Slab-100mm

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 09/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Technical Manager



TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-06-07-07 Date: 13-05-22

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.

Agency : Sri Raghu A N (M25 INFRA PRIVATE LIMITED), No 35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.

Customer's Reference : BBMP/EE/YNK D/EPMT-15/W.O/02/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-05-22

Sample Type /Size : Precast Cover Slab-250mm

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 09/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	200.02	250.42	3.116	31416	685.7	21.8	20.3	25.4
2	Cover Slab-2	200.02	250.51	3.122	31416	676.9	21.5	20.0	25.0
3	Cover Slab-3	200.04	250.54	3.118	31423	681.1	21.7	20.2	25.2

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-07-07 Date: 02/06/2022

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.

Agency : Sri Raghu A N (M25 INFRA PRIVATE LIMITED), No.35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.

Customer's Reference : BBMP/EE/YNK D/EPMT-15/W.O/02/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-05-22

Customer ID : Bottom Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/06/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Bottom Slab	M20	05/05/2022	02/06/2022	149 00 X 150 82 X 150 62	22473	8 298	517.3	23.0	22.7
2	Bottom Slab	M20	05/05/2022	02/06/2022	149 81 X 149 54 X 151 90	22402	8 424	493.1	22.0	
3	Bottom Slab	M20	05/05/2022	02/06/2022	149 97 X 149 56 X 151 73	22430	8 537	516.9	23.0	

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Authorized Signatory
Technical Manager



TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-07-07 Date: 12/05/2022
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphalting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.
Agency : Sri Raghu A N (M25 INFRA PRIVATE LIMITED), No.35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.
Customer's Reference : BBMP/EE/YNK D/EPMT-15/W O/02/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-05-22
Customer ID : Bottom Slab
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CI 5
Date of test : 12/05/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Bottom Slab	M20	05/05/2022	12/05/2022	150.47 X 149.53 X 151.27	22500	8.534	419.8	18.7	18.5
2	Bottom Slab	M20	05/05/2022	12/05/2022	151.30 X 150.94 X 149.96	22837	8.424	424.6	18.6	
3	Bottom Slab	M20	05/05/2022	12/05/2022	150.11 X 150.44 X 151.05	22582	8.500	410.0	18.2	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory

Technical Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-07-07
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.
Agency : Sri Raghu A N (M25 INFRA PRIVATE LIMITED), No.35SY No.6/3, 1st Cross S N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092
Customer's Reference : BBMP/EE/YNK D/EPMT-15/W O/02/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-05-22
Customer ID : Bottom Slab
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 02/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Bottom Slab	M20	05/05/2022	02/06/2022	151 98 X 151 80 X 150 51	23071	8 762	547 7	23 7	23 3
2	Bottom Slab	M20	05/05/2022	02/06/2022	151 81 X 149 42 X 150 66	22685	8 867	519 4	22 9	
3	Bottom Slab	M20	05/05/2022	02/06/2022	151 59 X 149 80 X 149 86	22709	9 045	526 9	23 2	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested
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Authorized Signatory
Technical Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-07-07
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.
Agency : Sri Raghu A N (M25 INFRA PRIVATE LIMITED), No.35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092
Customer's Reference : BBMP/EE/YNK D/EPMT-15/W O/02/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 09-05-22
Customer ID : Side Wall
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CI 5
Date of test : 13/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq. mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Side Wall	M20	06/05/2022	13/05/2022	151.26 X 150.99 X 149.22	22839	8.677	414.9	18.2	18.3
2	Side Wall	M20	06/05/2022	13/05/2022	150.15 X 149.80 X 150.40	22492	8.263	405.2	18.0	
3	Side Wall	M20	06/05/2022	13/05/2022	150.79 X 151.82 X 149.09	22892	8.332	426.7	18.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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R. RUDRAPRASAD
Authorized Signatory
Technical Manager

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-07-07 Date: 13/05/2022
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphalting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.
Agency : Sri Raghu A N (M25 INFRA PRIVATE LIMITED), No.35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.
Customer's Reference : BBMP/EE/YNK D/EPMT-15/W O/02/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 09-05-22
Customer ID : Side Wall
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C15
Date of test : 13/05/2022

SL. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Side Wall	M20	06/05/2022	13/05/2022	151.36 X 149.97 X 151.23	22700	8.812	417.8	18.4	18.6
2	Side Wall	M20	06/05/2022	13/05/2022	149.23 X 151.09 X 150.83	22547	9.035	422.0	18.7	
3	Side Wall	M20	06/05/2022	13/05/2022	150.06 X 151.67 X 150.58	22761	8.518	423.3	18.6	

* The results obtained are satisfactory as per standard requirements

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Technical Manager



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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-07-07 Date: 03/06/2022
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.
Agency : Sri Raghu A N (M25 INFRA PRIVATE LIMITED), No.35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.
Customer's Reference : BBMP/EE/YNK D/EPMT-15/W O/02/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 09-05-22
Customer ID : Side Wall
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete CI 5
Date of test : 03/06/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Side Wall	M20	06/05/2022	03/06/2022	151.93 X 151.39 X 150.91	23001	8.225	533.3	23.2	23.1
2	Side Wall	M20	06/05/2022	03/06/2022	150.94 X 149.90 X 149.02	22626	8.380	515.8	22.8	
3	Side Wall	M20	06/05/2022	03/06/2022	150.13 X 149.66 X 151.81	22468	8.396	521.9	23.2	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-06-07-07 Date: 18-05-22
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.
Agency : Sri Raghu A.N (M25 INFRA PRIVATE LIMITED), No:35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.
Customer Reference : BBMP/EE/YNK.D/EPMT-15/W.O/02/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-05-22
Type of Mix : WMM (Wet Mix Macadam)
Date of Test : 16-05-22
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

Note:-

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Technical Manager



DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2022-06-07-07 Date: 18-05-22
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.
Agency : Sri Raghu A.N (M25 INFRA PRIVATE LIMITED), No.35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.
Customer Reference : BBMP/EE/YNK.D/EPMT-15/W.O/02/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-05-22
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test : 16-05-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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Certificate No.: TC-5548

TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2022-06-07-07 Date: 28-05-22
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.
Agency : Sri Raghu A.N (M25 INFRA PRIVATE LIMITED), No.35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagar, Bangalore-560092.
Customer Reference : BBMP/EE/YNK.D/EPMT-15/W.O/02/2021-22
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 25-05-22
Type of Mix : DBM (Dense Bituminous Mecadam)
Date of Test : 25-05-22

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	-

* The results obtained are satisfactory as per standard requirements.

Note:-

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Lab ID : CP-RW-2022-06-07-07

Date: 04-06-22

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	47	47	9.9	90.1	71-95
13.2	47	94	19.6	80.4	56-80
4.75	190	284	59.4	40.6	38-54
2.36	50	334	69.9	30.1	28-42
0.3	50	384	80.4	19.6	7-21
0.075	60	444	93.0	7.0	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	48	48	10.1	89.9	71-95
13.2	49	97	20.4	79.6	56-80
4.75	187	284	59.7	40.3	38-54
2.36	58	342	71.8	28.2	28-42
0.3	45	387	81.3	18.7	7-21
0.075	61	448	94.1	5.9	2-8

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR BC IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2022-06-07-07 Date: 01-06-22
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.
Agency : Sri Raghu A.N (M25 INFRA PRIVATE LIMITED), No-35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.
Customer Reference : BBMP/EE/YNK.D/EPMT-15/W.O/02/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-05-22
Type of Mix : BC-Plant (Bituminous Concrete)
Date of Test : 30-05-22
Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : CP-RW-2022-06-07-07 Date: 23-05-22
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads from Doddaballapura Main Road to JP Colony in Chowdeshwari Ward No 02 of Yelahanka Sub Division.
Agency : Sri Raghu A.N (M25 INFRA PRIVATE LIMITED), No:35SY No.6/3, 1st Cross S.N Layout, Kodigehalli Village, TATA Nagara, Bangalore-560092.
Customer's Reference : BBMP/EE/YNK.D/EPMT-15/W.O/02/2021-22
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 20-05-22
Sample Type : Bitumen
Reference to BIS codes : IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test : 20-05-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C, in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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